

608002-*	"size" RIGHT-OF-WAY FENCE, FARM FIELD	LINEAR FOOT (METER)
608003-*	"size" TEMPORARY FENCE	LINEAR FOOT (METER)
608004-*	"size" PEDESTRIAN GATE, CHAIN LINK	EACH
608005-*	VEHICULAR GATE, CHAIN LINK	EACH
608006-*	PEDESTRIAN GATE, FARM FIELD, "size"	EACH
608007-*	VEHICULAR GATE, FARM-FIELD, "size"	EACH

*Sequence Number

SECTION 609 SIDEWALKS

609.1-DESCRIPTION:

This work shall consist of the construction of portland cement concrete sidewalks in accordance with these Specifications and in reasonably close conformity with the lines and grades shown on the Plans or established by the Engineer.

609.2-MATERIALS:

Materials shall meet the requirements specified in the following Subsections of Division 700:

MATERIAL	SUBSECTION
Expansion Joint Filler (Preformed)	708.1, 708.2
Joint Sealing Material	708.3

Bed Course Material: Bed course material shall consist of approved gravel, crushed stone, or crushed slag meeting the gradation requirements in 704.6.2 for Class 1 or Class 2, unless otherwise specified on the Plans.

Concrete shall be Class B conforming to the requirements of 601.

Concrete mixes will be subject to inspection and tests at the mixing plants for compliance with quality requirements.

All materials will be subject to inspection for acceptance as to condition at the latest practicable time the Engineer has the opportunity to check for compliance prior to or during incorporation of materials in the work.

CONSTRUCTION METHODS

609.3-SUBGRADE PREPARATION:

The subgrade shall be constructed true to grade and cross section as shown on the Plans or directed by the Engineer. It shall be watered, if required, and thoroughly compacted before placing the concrete or bed course material. All soft and yielding material shall be removed and replaced with suitable material.

609.4

The completed subgrade shall be tested for grade and cross section by means of a template supported on the side forms.

609.4-DRY BED:

When called for on the Plans, bed course material shall be placed on the subgrade to the depth and width specified and compacted.

609.5-FORMS:

Forms shall be of wood or metal and shall extend for the full depth of the concrete. All forms shall be straight, free from warp, and of sufficient strength to resist the pressure of the concrete without springing. Bracing and staking of forms shall be such that the forms remain in both horizontal and vertical alignment until their removal. All forms shall be cleaned and oiled before being used.

609.6-MIXING AND PLACING CONCRETE:

The foundation and surfaces not oiled shall be thoroughly moistened immediately prior to the placing of the concrete. The proportioning, mixing, and placing of the concrete shall be in accordance with the requirements for the class of concrete specified.

609.7-EXPANSION JOINTS:

Expansion joints $\frac{1}{4}$ in. (6 mm) wide shall be constructed at 30 ft. (9 m) intervals, at all returns, and opposite expansion joints in adjacent curb. A longitudinal expansion joint $\frac{1}{4}$ in. (6 mm) wide shall be placed between sidewalk and curb. Expansion joints shall be filled with preformed joint fill which shall be shaped to fit the concrete section being placed.

Where sidewalks are to be placed around or adjacent to manholes, drop inlets, or other miscellaneous structures in sidewalk areas, such structures shall not be constructed to final grade until after the sidewalk has been constructed for a reasonable distance on each side of the structure. Expansion joints, of the type specified above, shall be constructed between all such appurtenances and the sidewalk.

With the approval of the Engineer, preformed filler in longitudinal expansion joints between sidewalks and curbs may be eliminated, and the opening remaining after sidewalk has been placed shall be filled with joint sealing material.

609.8-FINISHING:

Fresh concrete shall be struck off and compacted until a layer of mortar has been brought to the surface. The surface shall be finished to grade and cross section with a float, troweled smooth, and finished with a broom. The float shall be not less than 10 feet (3 m) in length and not less than 6 inches (150 mm) in width. Brooming shall be transverse to the line of traffic, and the broom shall be kept clean.

All outside edges of the slab and all joints shall be edged with a ¼ in. (6 mm) radius edging tool.

The surface of sidewalks shall be marked into rectangles of not less than 12 sq. ft. (1 sq. m) with a scoring tool which will form dummy joints and rounded sidewalk edges. The dummy joints shall extend into the concrete ¾ in. (9 mm) depth and shall be approximately ½ in. (3 mm) wide.

The finished surface shall not vary more than ¼ in. (6 mm) from a 10 ft. (3 m) straightedge, except at grade changes, and shall be free from blemishes.

609.9-CURING:

Concrete shall be cured for at least 72 hours. Curing shall be by means of moist burlap mats, membrane curing compound, vapor barrier, or by other approved methods. During the curing period, all traffic, both pedestrian and vehicular, shall be excluded. Vehicular traffic shall be excluded for such additional time as the Engineer may direct.

609.10-METHOD OF MEASUREMENT:

Sidewalks will be measured in square yards (meters), complete in place and accepted, which will be determined by the length measured upon the surface times the width constructed, as authorized by the Engineer. Bed course material will be measured by the cubic yard (meter), complete in place and accepted. Where a driveway crosses a sidewalk, the intersecting area shall be constructed to the driveway specifications and shall not be measured for payment as sidewalk area.

609.11-BASIS OF PAYMENT:

The quantities, determined as provided above, will be paid for at the contract unit prices bid for the items listed below, which prices and payment shall be full compensation for furnishing all the materials and doing all the work prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, and incidentals necessary to complete the work.

609.12-PAY ITEMS:

ITEM	DESCRIPTION	UNIT
609001-*	Concrete Sidewalk	SQUARE YARD (METER)
609002-*	Bed Course Material	CUBIC YARD (METER)

*Sequence number